



RAILROAD COMMISSION OF TEXAS

Form W-2

1701 N. Congress  
P.O. Box 12967  
Austin, Texas 78701-2967

Status: Approved  
Date: 08/02/2018  
Tracking No.: 191549

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG

OPERATOR INFORMATION

Operator Name: FELIX ENERGY HOLDINGS II, LLC Operator No.: 265322  
Operator Address: FELIX ENERGY 1530 16TH ST SUITE 500 DENVER, CO 80202-0000

WELL INFORMATION

API No.: 42-475-37215 County: WARD  
Well No.: 1H RRC District No.: 08  
Lease Name: UL GUANELLA 0504-17 Field Name: PHANTOM (WOLFCAMP)  
RRC Lease No.: 50177 Field No.: 71052900  
Location: Section: 5, Block: 17, Survey: UL, Abstract:  
  
Latitude: Longitude:  
This well is located 3.76 miles in a NW  
direction from PYOTE,  
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Initial Potential  
Type of completion: New Well  
Well Type: Producing Completion or Recompletion Date: 08/01/2017  

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	03/24/2017	824506
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 05/27/2017	Date of first production after rig released: 08/01/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 05/27/2017	Date plug back, deepening, recompletion, or drilling operation ended: 06/29/2017
Number of producing wells on this lease in this field (reservoir) including this well: 1	Distance to nearest well in lease & reservoir (ft.): 0.0
Total number of acres in lease: 1280.94	Elevation (ft.): 2666 GR
Total depth TVD (ft.): 11349	Total depth MD (ft.): 16361
Plug back depth TVD (ft.):	Plug back depth MD (ft.):
Was directional survey made other than inclination (Form W-12)? Yes	Rotation time within surface casing (hours): 59.5
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? Yes
Type(s) of electric or other log(s) run: Gamma Ray (MWD)	Multiple completion? No
Electric Log Other Description:	
Location of well, relative to nearest lease boundaries	Off Lease : No
of lease on which this well is located: 225.0 Feet from the South Line and 330.0 Feet from the West Line of the UL GUANELLA 0504-17 Lease.	

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.

Field & Reservoir	Gas ID or Oil Lease No.	Well No.	Prior Service Type
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PACKET: N/A

W2:	N/A			
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:				
GAU Groundwater Protection Determination		Depth (ft.):	1200.0	Date: 03/28/2017
SWR 13 Exception		Depth (ft.):		

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION		
Date of test: 08/19/2017		Production method: Flowing
Number of hours tested: 24		Choke size: 16
Was swab used during this test? No		Oil produced prior to test: 5527.00
PRODUCTION DURING TEST PERIOD:		
Oil (BBLS): 591.00		Gas (MCF): 686
Gas - Oil Ratio: 1160		Flowing Tubing Pressure: 2552.00
Water (BBLS): 1111		
CALCULATED 24-HOUR RATE		
Oil (BBLS): 591.0		Gas (MCF): 686
Oil Gravity - API - 60.: 41.2		Casing Pressure: 0.00
Water (BBLS): 1111		

CASING RECORD											
Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Depth (ft.)	Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	13 3/8	17 1/2	1220			C	1200	2113.0	SURF ACE	Circulated to Surface
2	Intermediate	10 3/4	12 1/4	5000			C	1010	2490.0	1800	Calculation
3	Intermediate	7 5/8	9 3/4	10809	5236		C	670	1622.0	5236	Calculation
4	Intermediate	7 5/8	9 3/4	10809			C	460	1173.0	250	Calculation
5	Conventional Production	5 1/2	6 3/4	16351			H	920	1127.0	3600	Calculation

LINER RECORD									
Row	Liner Size (in.)	Hole Size (in.)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
N/A									

TUBING RECORD			
Row	Size (in.)	Depth	Size (ft.)
1	2 7/8	10964	10948 / AS1-X

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 11534	16219.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment performed?		Yes	
Is well equipped with a downhole actuation sleeve?		No	
If yes, actuation pressure (PSIG):			
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:		13144	
Actual maximum pressure (PSIG) during hydraulic fracturing:		12500	
Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)?		Yes	
Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)
1	Fracture	432,936 BBLS SLKWTR; 13,643,085 LBS PROPPANT	11534 16219

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
RUSTLER	Yes	2078.0	2083.0	Yes	
YATES	No			No	NOT PRESENT
SEVEN RIVERS	No			No	NOT PRESENT
QUEEN	No			No	NOT PRESENT
GLORIETA	No			No	NOT PRESENT
SAN ANDRES - HIGH FLOWS, H2S, CORROSIVE HOLT	No			No	NOT PRESENT
CLEARFORK	No			No	NOT PRESENT
DELAWARE	Yes	4997.0	5007.0	Yes	
TUBB	No			No	NOT PRESENT
WICHITA ALBANY	No			No	NOT PRESENT
CHERRY CANYON	Yes	5899.0	5909.0	Yes	
WADDELL	No			No	NOT PRESENT
BONE SPRINGS	Yes	8343.0	8353.0	Yes	
WOLFCAMP	Yes	11232.0	11268.0	Yes	
MONTOYA	No			No	NOT PENETRATED
PENNSYLVANIAN	No			No	NOT PENETRATED
ATOKA	No			No	NOT PENETRATED
FUSSELMAN	No			No	NOT PENETRATED
DEVONIAN	No			No	NOT PENETRATED
ELLENBURGER	No			No	NOT PENETRATED
Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)?					No
Is the completion being downhole commingled (SWR 10)?					No

REMARKS

RRC REMARKS	
<b>PUBLIC COMMENTS:</b> [RRC Staff 2018-06-18 13:15:21.666] EDL=4650 feet, max acres=704, PHANTOM (WOLFCAMP) oil or gas well;  take points: 11534-16219 feet	
<b>CASING RECORD :</b>  KOP @ 10,834	
<b>TUBING RECORD:</b>	
<b>PRODUCING/INJECTION/DISPOSAL INTERVAL :</b>  FIRST AND LAST LEGAL TAKE POINT ON THE AS DRILLED PLAT ATTACHED. CHANGING NAME FROM UL GUANELLA 05-17 1H TO UL GUANELLA 0504-17 1H TO COMPLY WITH RRC NAMING RULES. UPDATED ACREAGE TO INCLUDE 640.22 FROM SECTION 4 WHICH HAS BEEN ADDED TO THE DRILL UNIT.	
<b>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</b>  SEE P16 FOR ADDITIONAL REMARKS RE ACREAGE CHANGES	
<b>POTENTIAL TEST DATA:</b>	

OPERATOR'S CERTIFICATION	
<b>Printed Name:</b> Heather Dahlgren	<b>Title:</b> Felix Admin Services
<b>Telephone No.:</b> (720) 974-2069	<b>Date Certified:</b> 08/01/2018





# RAILROAD COMMISSION OF TEXAS

1701 N. Congress  
P.O. Box 12967  
Austin, Texas 78701-2967

Form W-15

Rev. 08/2014

## CEMENTING REPORT

Cementer: Fill in shaded areas.  
Operator: Fill in other items.

OPERATOR INFORMATION					
Operator Name: FELIX ENERGY HOLDING 11 LLC		Operator P-5 No.: 265322			
Cementer Name: TRANS TEX CEMENTING SERVICES, LLC		Cementer P-5 No.: 864412			
WELL INFORMATION					
District No.: 08		County: WARD			
Well No.: # 1H		API No.: 42-475-37215		Drilling Permit No.: 824506	
Lease Name: GUANELLA 05-17		Lease No.: 1H			
Field Name: Phantom (Wolfcamp)		Field No.: 71052900			
I. CASING CEMENTING DATA					
Type of Casing: <input type="checkbox"/> Conductor <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input checked="" type="checkbox"/> Production					
Drilled hole size (in.): 17 1/2		Depth of drilled hole (ft.): 1245		Est. % wash-out or hole enlargement: 20%	
Size of casing in O.D. (in.): 13 3/8		Casing weight (lbs/ft) and grade: 54.5 # J55		No. of centralizers used: 9	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.		Setting depth shoe (ft.): 1220		Top of liner (ft.):	
Hrs. waiting on cement before drill-out: 15		Calculated top of cement (ft.): Surface		Cementing date: 5/27/2017	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	770	TRANS-TEX DIVERSE	SEE REMARKS	1417	2040
2	430	TRANS-TEX LITE "C"	SEE REMARKS	696	1002
3					
Total	1200			2113	3042
II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement sh <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:		Lower:		Upper:	
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:		Lower:		Upper:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES <input type="checkbox"/> NO <input type="checkbox"/>		Setting depth shoe (ft.):		Cementing date:	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):			
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					
III. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:		Lower:		Upper:	
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:		Lower:		Upper:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES <input type="checkbox"/> NO <input type="checkbox"/>		Setting depth shoe (ft.):		Cementing date:	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):			
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					



CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							
REMARKS							
6%GEL, + 2%CACI, + 1.5# PHENO, + 1/8# CELLOFLAKE, + 1.5%CAS-2, + .2%CFL-1							
1%CACI2, + 1/8# CELLOFLAKE, + .2%CFL-1							
0							
CIRCULATE CEMENT TO SURFACE 167 BBLS OR 509 SKS							

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Jose L Reynoso

Name and title of cementer's representative

TRANS TEX CEMENTING

Cementing Company

*Jose L Reynoso*  
Signature

5019 BASIN ST

Address

MIDLAND, TX 79703

City, State, Zip Code

432-694-4900

Tel: Area Code Number

5/27/2017

Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

*HEATHER DANLORSEN*

Typed or printed name of operator's representative

*ENG TECH*

Title

*[Signature]*  
Signature

1530 16<sup>th</sup> St Ste 400 Denver CO 80202

Address

City, State, Zip Code

720 974-2069

Tel: Area Code Number

4/30/2018  
Date: mo. day yr.

### Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

A. **What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. **How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System

(<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 787112967).

C. **Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac5ext.TacPage?sl=R&app=9&p\\_dir=&p\\_rloc=&p\\_tloc=&p\\_ploc=&pg=1&p\\_tac=&ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readtac5ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.

E. **Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.

F. **Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.

G. **Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.





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P.O. Box 12967  
Austin, Texas 78701-2967

Form W-15

Rev. 08/2014

## CEMENTING REPORT

Cementor: Fill in shaded areas.  
Operator: Fill in other items.

OPERATOR INFORMATION					
Operator Name: FELIX ENERGY HOLDING II LLC-EBUS			Operator P-5 No.: 265322		
Cementor Name: HALLIBURTON ENERGY SERVICES			Cementor P-5 No.: 347151		
WELL INFORMATION					
District No.: 08			County: WARD		
Well No.: 1H			API No.: 42-475-37215 Drilling Permit No.: 824506		
Lease Name: UL GUANELLA 05-17			Lease No.:		
Field Name: Phantom (Wolfcamp)			Field No.: 71052900		
I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
Drilled hole size (in.): 12 1/4		Depth of drilled hole (ft.): 5015		Est. % wash-out or hole enlargement: 209.	
Size of casing in O.D. (in.): 10 3/4		Casing weight (lbs/ft) and grade: 15.5 #J55		No. of centralizers used: 39	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If no for surface casing, explain in Remarks.				Setting depth shoe (ft.): 5000	
				Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out: 7		Calculated top of cement (ft.): 1800'		Cementing date: 6/4/2017	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	770	C	3 LBM KOL-SEAL/0.1250 LBM POLY FLAKE	2191	9671
2	240	C	.30% HR-800/3 LBM KOL-SEAL/0.1250 LBM POLY FLAKE	299	1591
3					
Total	1010			2490	11262
II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:		Lower:			
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:		Lower:		Upper:	
Lower:		Lower:		Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0
III. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:		Lower:			
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:		Lower:		Upper:	
Lower:		Lower:		Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth tool (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0



CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							

REMARKS
S.O.# 0904061176

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

**GUSTAVO GARZA SERVICE SUPERVISOR**

Halliburton

*Gustavo Garza*  
Signature

Name and title of cementer's representative  
6155 W. Murphy St.

Cementing Company

Odessa, TX, 79763

432-571-8600

6/4/17

Address

City, State, Zip Code

Tel: Area Code Number

Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

*HEATHER DAHLGREN*  
Typed or printed name of operator's representative

ENGTECH  
Title

*Heather Dahlgren*  
Signature

1530 16th St Ste 400 Denver CO 80202  
Address

City, State, Zip Code

720-974-2069  
Tel: Area Code Number

4/30/2018  
Date: mo. day yr.

### Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

- What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.  
The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.  
To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p\\_dir=&p\\_rloc=&p\\_tloc=&p\\_ploc=&pg=1&p\\_tac=&ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.





# RAILROAD COMMISSION OF TEXAS

1701 N. Congress  
P.O. Box 12967  
Austin, Texas 78701-2967

Form W-15

Rev. 08/2014

## CEMENTING REPORT

Cementor: Fill in shaded areas.  
Operator: Fill in other items.

OPERATOR INFORMATION					
Operator Name: FELIX ENERGY HOLDINGS II LLC-EBUS			Operator P-5 No.: 265322		
Cementor Name: HALLIBURTON ENERGY SERVICES			Cementor P-5 No.: 347151		
WELL INFORMATION					
District No.: 08			County: WARD		
Well No.: 1H			API No.: 42-475-37215		Drilling Permit No.: 824806
Lease Name: UL GUANELLA 05-17			Lease No.:		
Field Name: Phantom (Wolfcamp)			Field No.: 71052900		
I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.			Setting depth shoe (ft.):		Top of liner (ft.):
					Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0
II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input checked="" type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.): 9 3/4		Depth of drilled hole (ft.): 10824		Est. % wash-out or hole enlargement: 20%	
Size of casing in O.D. (in.): 7 5/8		Casing weight (lbs/ft) and grade: 29.7 P110		No. of centralizers used: 80	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:		Lower:			
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:		Lower:		Upper:	
Lower:		Lower:		Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			Setting depth shoe (ft.): 10809		
Hrs. waiting on cement before drill-out: 20		Calculated top of cement (ft.): 5236		Cementing date: 06/14/2017	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	465	C	KOL-SEAL	1322	6104
2	205	C	NONE	300	1287
3					
Total	670			1622	7391
III. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input checked="" type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.): 9 3/4		Depth of drilled hole (ft.): 10824		Est. % wash-out or hole enlargement: 20%	
Size of casing in O.D. (in.): 7 5/8		Casing weight (lbs/ft) and grade: 29.7 P110		No. of centralizers used: 80	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:		Lower:			
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:		Lower:		Upper:	
Lower:		Lower:		Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			Setting depth tool (ft.): 5236		
Hrs. waiting on cement before drill-out: 20		Calculated top of cement (ft.): 250		Cementing date: 06/14/2017	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	370	C	KOL-SEAL, POLY-E-FLAKE	1052	4721
2	90	C	HR-800, POLY-E-FLAKE, KOL-SEAL	121	554
3					
Total	460			1173	5275

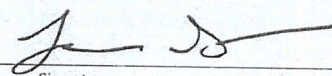


CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							
REMARKS							

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

**LOUIS GENOVESI SERVICE SUPERVISOR**

**Halliburton**



Name and title of cementer's representative

Cementing Company

Signature

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

06/14/2017

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

**HEATHER DAHLGREN**

**ENG TECH**



Typed or printed name of operator's representative

Title

Signature

1530 16th St Ste 500 Denver CO 80202

720 974 2069

4/30/2018

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

### Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

- What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.  
The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
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To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p\\_dir=&p\\_rloc=&p\\_tloc=&p\\_ploc=&pg=1&p\\_tac=&ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.





# RAILROAD COMMISSION OF TEXAS

1701 N. Congress  
P.O. Box 12967  
Austin, Texas 78701-2967

Form W-15

Rev. 08/2014

## CEMENTING REPORT

Cementer: Fill in shaded areas.  
Operator: Fill in other items.

### OPERATOR INFORMATION

Operator Name: Felix Energy Holdings II LLC-EBUS	Operator P-5 No.: 265322
Cementer Name: Halliburton Energy Services	Cementer P-5 No.: 347151

### WELL INFORMATION

District No.: 09	County: Ward
Well No.: 1H	API No.: 42-475-37215 Drilling Permit No.: 82405506
Lease Name: UL Guanella S-17 1H	Lease No.:
Field Name: Phantom (Wolfcamp)	Field No.: 71052900

### I. CASING CEMENTING DATA

Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input checked="" type="checkbox"/> Production		
Drilled hole size (in.): 6 3/4	Depth of drilled hole (ft.): 16361	Est. % wash-out or hole enlargement: 269%
Size of casing in O.D. (in.): 5 1/2	Casing weight (lbs/ft) and grade: 23# P110	No. of centralizers used: 0
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 16351	Top of liner (ft.):
	Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.): 3600	Cementing date: 6-28-17

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	920	H	0.4% HALAD-744, 0.35% H-601, 0.250m D-AIR 5000	1127	12532
2					
3					
Total	920			1127	12532

### II. CASING CEMENTING DATA

Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings		
Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0

### III. CASING CEMENTING DATA

Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings		
Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth tool (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0



CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							

#### REMARKS

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

**Carl Ludwig**

**Halliburton**

Name and title of cementer's representative	Cementing Company	Signature	
2311 S. First St.	Artesia, NM, 88210	575-392-0700	6-28-17
Address	City, State, Zip Code	Tel: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Typed or printed name of operator's representative	Title	Signature	
Freddie Harverson	CO-MAN	Freddie Harverson	
1530 16th St Ste 500 Denver CO 80202	City, State, Zip Code	720-974-2069	4/30/18
Address	City, State, Zip Code	Tel: Area Code Number	Date: mo. day yr.

### Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

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The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
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- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



Tracking No.: 191549

This facsimile L-1 was generated electronically from data submitted to the RRC.

## Instructions

**When to File Form L-1:**

- with Forms G-1, W-2, and GT-1 for new and deepened gas, oil, and geothermal wells
- with Form W-3 for plugged dry holes
- when sending in a log which was held under a request for confidentiality and the period for confidentiality has not yet expired.

**When is Form L-1 NOT required:**

- with Forms W-2, G-1, and GT-1 filed for injection wells, disposal wells, water supply wells, service wells, re-test wells, re-classifications, and plugbacks of oil, gas or geothermal wells
- with Form W-3 for plugging of other than a dry hole

**Where to File Form L-1:**

- with the appropriate Commission district office

**Filling out Form L-1:**

- Section I and the signature section must be filled out for all wells
- complete only the appropriate part of Section II

**Type of log required:**

- any wireline survey run for the purpose of obtaining lithology, porosity, or resistivity information
- no more than one such log is required but it must be of the subject well
- if such log is NOT run on the subject well, do NOT substitute any other type of log; just select Section II, Part A below

## SECTION I. IDENTIFICATION

Operator Name: FELIX ENERGY HOLDINGS II, LLC	District No. 08	Completion Date: 08/01/2017
Field Name PHANTOM (WOLFCAMP)	Drilling Permit No. 824506	
Lease Name UL GUANELLA 0504-17	Lease/ID No. 50177	Well No. 1H
County WARD	API No. 42- 475-37215	

## SECTION II. LOG STATUS (Complete either A or B)

☐ A. BASIC ELECTRIC LOG NOT RUN☒ B. BASIC ELECTRIC LOG RUN. (Select one)

- ☒ 1. Confidentiality is requested and a copy of the header for each log that has been run on the well is attached.
- ☐ 2. Confidentiality already granted on basic electric log covering this interval (applicable to deepened wells only).
- ☐ 3. Basic electric log covering this interval already on file with Commission (applicable to deepened wells only).
- ☐ 4. Log attached to (select one):

☐ (a) Form L-1 (this form). If the company/lease name on log is different from that shown in Section I, please enter name on log here: \_\_\_\_\_

Check here if attached log is being submitted after being held confidential. ☐

☐ (b) Form P-7, Application for Discovery Allowable and New Field Designation.

☐ (c) Form W-4, Application for Multiple Completion:

Lease or ID No(s). \_\_\_\_\_

Well No(s). \_\_\_\_\_

Heather Dahlgren

Signature

FELIX ENERGY HOLDINGS II, LLC

Name (print)

Felix Admin Services

Title

(720) 974-2069

Phone

04/30/2018

Date

-FOR RAILROAD COMMISSION USE ONLY-



TEMPERATURE  
GAMMA RAY

1" / 5" MD LOG  
1:1200 / 1:240

County : Ward County, Texas	Company : Felix Energy
Field : Wolfcamp	Rig : Cactus 139
Location : Lat: 31° 34' 57.37" North Long: 103° 9' 51.80" West	Well : UL Guanella 05-17 1H
Well : UL Guanella 05-17 1H	County : Ward County, Texas
Company : Felix Energy	API Number : 42-475-37215
Rig : Cactus 139	
LOCATION	Latitude : 31° 34' 57.37" North Longitude : 103° 9' 51.80" West
	StatePlane X = 340,922.371 m StatePlane Y = 215,807.473 m
	Other Services Directional Drilling
Permanent Datum : Ground Level	Elevation : 2666.65 ft
Log Measured From : Drill Floor	25.00 ft Above Permanent Datum
Drilling Measured From : Drill Floor	MD LOG
Depth Logged : 80.00 ft To 16,361.00 ft	Unit No. : 11498524
Date Logged : 25-May-17 To 27-Jun-17	Job No. : MO-XX-0904050985
Total Depth MD : 16,361.00 ft TVD: 11,348.97 ft	Plot Type : Final
Spud Date : 25-May-17	Plot Date : 27-Jun-17

Run No.	Borehole Record (MD)			Size	Casing Record (MD)		
	Size	From	To		Weight	From	To
0100	17.500 in	80.00 ft	1,245.00 ft	13.375 in	54.50 lbp/ft	SURFACE	1,224.00 ft
0200	12.250 in	1,245.00 ft	2,107.00 ft	10.375 in	45.50 lbp/ft	SURFACE	5,003.00 ft
0300	12.250 in	2,107.00 ft	5,015.00 ft	7.625 in	29.70 lbp/ft	SURFACE	10,824.00 ft
0400	9.875 in	5,015.00 ft	7,832.00 ft				
0500	9.875 in	7,832.00 ft	8,788.00 ft				
0600	9.875 in	8,788.00 ft	9,513.00 ft				
0700	9.875 in	9,513.00 ft	10,824.00 ft				
0800	6.750 in	10,824.00 ft	11,220.00 ft				
0900	6.750 in	11,220.00 ft	11,734.00 ft				
1000	6.750 in	11,734.00 ft	14,584.00 ft				
1100	6.750 in	14,584.00 ft	15,607.00 ft				

WELL INFORMATION

Run Number	100	200	300	400	500
Run completed	26-May-17	29-May-17	02-Jun-17	07-Jun-17	09-Jun-17
Number	0100	0200	0300	0400	0500
Size (in)	17.500	12.250	12.250	9.875	9.875
Nominal OD (in)	8.064	8.064	8.064	8.064	8.064
Start Depth (MD, ft)	80.00	1,245.00	2,107.00	5,015.00	7,832.00
End Depth (MD, ft)	1,245.00	2,107.00	5,015.00	7,832.00	8,788.00
Wipe	Drill	Drill	Drill	Drill	Drill
Wipe Start Date and Time	26-May-17 01:00	27-May-17 20:30	31-May-17 09:00	04-Jun-17 21:30	07-Jun-17 01:00
Wipe End Date and Time	26-May-17 07:30	29-May-17 00:30	02-Jun-17 11:30	07-Jun-17 03:30	08-Jun-17 01:00
Wipe Rate (deg) @ Depth (MD, ft)	1.15 @ 469.00	2.34 @ 1,411.00	1.34 @ 4,131.00	0.11 @ 7,265.00	0.25 @ 8,788.00
Wipe Rate (deg) @ Depth (MD, ft)	4.28 @ 1,181.00	7.00 @ 1,592.00	6.99 @ 2,236.00	2.36 @ 5,083.00	1.12 @ 8,788.00
Wipe Rate (deg) @ Depth (MD, ft)	3.34 / PDC	3.34 / PDC	1.18 / PDC	0.77 / PDC	0.77 / PDC
Wipe Rate (deg) @ Depth (MD, ft)	850.00	625.00	625.00	700.00	700.00
Wipe Rate (deg) @ Depth (MD, ft)	0.0 / 0.0	86.5 / 47.9	118.2 / 48.7	437.0 / 64.0	437.0 / 64.0
Wipe Rate (deg) @ Depth (MD, ft)	Native/Spud Mud	Native/Spud Mud	Native/Spud Mud	Native/Spud Mud	Native/Spud Mud
Wipe Rate (deg) @ Depth (MD, ft)	8.40 / 28.00	9.70 / 27.00	9.50 / 27.00	9.00 / 35.00	9.00 / 35.00
Wipe Rate (deg) @ Depth (MD, ft)	3,000.00	175,000.00	132,000.00	118,000.00	45,000.00
Wipe Rate (deg) @ Depth (MD, ft)	9.00 / 0	7.00 / 0	7.00 / 0	10.50 / 1	9.00 / 0
Wipe Rate (deg) @ Depth (MD, ft)	1 / 1.00	1 / 1.00	1 / 1.00	1 / 1.00	1 / 1.00
Wipe Rate (deg) @ Depth (MD, ft)	2.6 / 0	11 / 0.1	2.34 / 8.66	10 / 3.25	6.5 / 1.0
Wipe Rate (deg) @ Depth (MD, ft)	0 / 0.99	0 / 0.90	0 / 0.89	0 / 0.93	0 / 0.93
Wipe Rate (deg) @ Depth (MD, ft)	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A
Wipe Rate (deg) @ Depth (MD, ft)	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A
Wipe Rate (deg) @ Depth (MD, ft)	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A
Wipe Rate (deg) @ Depth (MD, ft)	117.73 / PCM	117.73 / PCM	117.73 / PCM	142.25 / PCM	158.47 / PCM
Wipe Rate (deg) @ Depth (MD, ft)	N/A @ 117.73	N/A @ 117.73	N/A @ 117.73	N/A @ 142.25	N/A @ 158.47
Wipe Rate (deg) @ Depth (MD, ft)	Rigo Mejia	Rigo Mejia	Rigo Mejia	Rigo Mejia	Rigo Mejia
Wipe Rate (deg) @ Depth (MD, ft)	Jerry Preston	Jerry Preston	Adam Bailey	Adam Bailey	Adam Bailey

CERTIFICATE OF COMPLIANCE  
AND TRANSPORTATION AUTHORITY

P-4

This facsimile P-4 was generated electronically from data submitted to the RRC.  
A certification of the automated data is available in the RRC's Austin office.

Tracking No.: 191549

1. Field name exactly as shown on proration schedule <b>PHANTOM (WOLFCAMP)</b>		2. Lease name as shown on proration schedule <b>UL GUANELLA 0504-17</b>							
3. Current operator name exactly as shown on P-5 Organization Report <b>FELIX ENERGY HOLDINGS II, LLC</b>		4. Operator P-5 no. <b>265322</b>	5. Oil Lse/Gas ID no <b>50177</b>	6. County <b>WARD</b>	7. RRC district <b>08</b>				
8. Operator address including city, state, and zip code <b>FELIX ENERGY 1530 16TH ST SUITE 500 DENVER, CO 80202</b>		9. Well no(s) (see instruction E) <b>1H</b>			11. Effective Date <b>08/01/2017</b>				
10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)									
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G) <b>a. Change of:</b> <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code <input type="checkbox"/> field name from _____ <input type="checkbox"/> lease name from _____ <b>OR</b> <b>b. New RRC Number for:</b> <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well <b>Due to:</b> <input checked="" type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> other well (specify) _____ <input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only)									
13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). (See instruction G).									
Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left (Attach an additional sheet in same format if more space is needed)			Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream		
X	X	TARGA DELAWARE LLC(836022)			0001	100.0			
14. Authorized OIL or CONDENSATE Gatherer(s). (See instruction G).									
Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First (Attach an additional sheet in same format if more space is needed)						Percent of Take			
WESTERN REFINING COMPANY, L.P.(912206)						100.0			
<b>RRC USE ONLY:</b> Reviewer's initials: <u>RRC Staff</u> Approval date: <u>08/02/2018</u>									
<b>15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING.</b> Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.  <table style="width:100%;"><tr><td style="width:50%; vertical-align: top;">Name of Previous Operator  Name (print)  Title</td><td style="width:50%; vertical-align: top;">Signature <input type="checkbox"/> <b>Authorized Employee of previous operator</b> <input type="checkbox"/> <b>Authorized agent of previous operator (see instruction G)</b>  Date  Phone with area code</td></tr></table>								Name of Previous Operator  Name (print)  Title	Signature <input type="checkbox"/> <b>Authorized Employee of previous operator</b> <input type="checkbox"/> <b>Authorized agent of previous operator (see instruction G)</b>  Date  Phone with area code
Name of Previous Operator  Name (print)  Title	Signature <input type="checkbox"/> <b>Authorized Employee of previous operator</b> <input type="checkbox"/> <b>Authorized agent of previous operator (see instruction G)</b>  Date  Phone with area code								
<b>16. CURRENT OPERATOR CERTIFICATION.</b> By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.  <table style="width:100%;"><tr><td style="width:50%; vertical-align: top;">FELIX ENERGY HOLDINGS II, LLC  Name (print) <u>Felix Admin Services</u>  Title <u>heatherd@felix-energy.com</u>  E-mail Address (optional)</td><td style="width:50%; vertical-align: top;">Heather Dahlgren  Signature <input checked="" type="checkbox"/> <b>Authorized Employee of current operator</b> <input type="checkbox"/> <b>Authorized agent of current operator (see instruction G)</b>  Date <u>04/30/2018</u>  Phone with area code <u>(720) 974-2069</u></td></tr></table>								FELIX ENERGY HOLDINGS II, LLC  Name (print) <u>Felix Admin Services</u>  Title <u>heatherd@felix-energy.com</u>  E-mail Address (optional)	Heather Dahlgren  Signature <input checked="" type="checkbox"/> <b>Authorized Employee of current operator</b> <input type="checkbox"/> <b>Authorized agent of current operator (see instruction G)</b>  Date <u>04/30/2018</u>  Phone with area code <u>(720) 974-2069</u>
FELIX ENERGY HOLDINGS II, LLC  Name (print) <u>Felix Admin Services</u>  Title <u>heatherd@felix-energy.com</u>  E-mail Address (optional)	Heather Dahlgren  Signature <input checked="" type="checkbox"/> <b>Authorized Employee of current operator</b> <input type="checkbox"/> <b>Authorized agent of current operator (see instruction G)</b>  Date <u>04/30/2018</u>  Phone with area code <u>(720) 974-2069</u>								

**Railroad Commission of Texas**  
Oil And Gas Division  
Request for Clearance of Storage Tanks  
Prior to Potential Test

Form P-8

Reference No. 42064

1. Operator's Name and Address (Exactly as shown on Form P-5 Organization Report) FELIX ENERGY HOLDINGS II, LLC FELIX ENERGY 1530 16TH ST SUITE 500 DENVER, CO 80202-0000		3. RRC District No. 08
2. RRC Operator Number: <u>265322</u>		4. County of Well Site WARD
		5. API No. 42-475-37215
6. Field Name (Wildcat or exactly as shown on RRC records) PHANTOM (WOLFCAMP)	7. Drilling Permit No. 824506	8. Rule 37 Case No.
9. Lease Name UL GUANELLA 05-17	10. Oil lease No.	11. Well No. 1H
12. Drilling completed on <u>06/29/2017</u>	13. Completion report--Form W-2 or G-1--will be filed on <u>02/01/2018</u>	
14. Oil or condensate gatherer's name and address WESTERN REFINING COMPANY, L.P. 6501 TROWBRIDGE DR EL PASO, TX 79905  (915) 775-3339	15. Authorization to transport oil or condensate (mark one) <input checked="" type="checkbox"/> Form P-4 attached <input checked="" type="checkbox"/> Form P-4 Filed on <u>12/19/2017</u>	
16. This request is for <u>75000</u> barrels of <input checked="" type="checkbox"/> crude oil OR <input type="checkbox"/> condensate	17. Amount of oil/condensate in tanks  <u>1500</u> barrels on <u>03/03/2018</u>	
18. Storage capacity in bbls. Tank battery <u>2000</u> Test tanks <u>0</u> Total <u>2000</u>		
19. Previous request for clearance. Amount <u>75000</u> barrels granted on <u>12/20/2017</u>		
20. Reason for current request for clearance (explain briefly) Additional barrels requested; waiting for RRC id		
Heather Dahlgren		ENG TECH
Name of operator's representative		Title of person
(720) 974-2069	03/03/2018	
Telephone	Date	
<b>RRC District Office Action</b>		
<b>Status:</b> Approved	<b>Barrels recommended</b> <u>75000</u>	<b>RRC Staff</b> <u>03/05/2018</u> Date

**Railroad Commission of Texas**  
Oil And Gas Division  
Request for Clearance of Storage Tanks  
Prior to Potential Test

Form P-8

Reference No. 41002

1. Operator's Name and Address (Exactly as shown on Form P-5 Organization Report) FELIX ENERGY HOLDINGS II, LLC FELIX ENERGY 1530 16TH ST SUITE 500 DENVER, CO 80202-0000		3. RRC District No. 08
2. RRC Operator Number: <u>265322</u>		4. County of Well Site WARD
6. Field Name (Wildcat or exactly as shown on RRC records) PHANTOM (WOLFCAMP)		7. Drilling Permit No. 824506
9. Lease Name UL GUANELLA 05-17		8. Rule 37 Case No.
10. Oil lease No.		11. Well No. 1H
12. Drilling completed on <u>06/29/2017</u>		13. Completion report--Form W-2 or G-1--will be filed on <u>02/01/2018</u>
14. Oil or condensate gatherer's name and address WESTERN REFINING COMPANY, L.P. 6501 TROWBRIDGE DR EL PASO, TX 79905 (915) 775-3339		15. Authorization to transport oil or condensate (mark one) <input checked="" type="checkbox"/> Form P-4 attached <input checked="" type="checkbox"/> Form P-4 Filed on <u>12/19/2017</u>
16. This request is for <u>75000</u> barrels of <input checked="" type="checkbox"/> crude oil OR <input type="checkbox"/> condensate		17. Amount of oil/condensate in tanks <u>1500</u> barrels on <u>12/19/2017</u>
18. Storage capacity in bbls. Tank battery <u>2000</u> Test tanks <u>0</u> Total <u>2000</u>		
19. Previous request for clearance. Amount <u>75000</u> barrels granted on <u>07/07/2017</u>		
20. Reason for current request for clearance (explain briefly) P4 Change of transporter from previous; Additional barrels requested		
Heather Dahlgren		ENG TECH
Name of operator's representative		Title of person
(720) 974-2069	12/19/2017	
Telephone	Date	
<b>RRC District Office Action</b>		
<b>Status:</b> Approved	<b>Barrels recommended</b> <u>75000</u>	<b>RRC Staff</b> <u>12/20/2017</u> Date

# CERTIFICATE OF POOLING AUTHORITY

Revised 05/2001

# P-12

1. Field Name(s) <b>Phantom (Wolfcamp)</b>	2. Lease/ID Number (if assigned)	3. RRC District Number <b>08</b>
4. Operator Name <b>Felix Energy Holdings II, LLC</b>	5. Operator P-5 Number <b>265322</b>	6. Well Number <b>1H</b>
7. Pooled Unit Name <b>UL Guanella 0504-17</b>	8. API Number <b>42-475-37215</b>	9. Purpose of Filing <input type="checkbox"/> Drilling Permit (W-1) <input checked="" type="checkbox"/> Completion Report
10. County <b>Ward</b>	11. Total acres in pooled unit <b>1280.94</b>	

## DESCRIPTION OF INDIVIDUAL TRACTS CONTAINED WITHIN THE POOLED UNIT

TRACT/PLAT IDENTIFIER	TRACT NAME	ACRES IN TRACT (See inst. #7 below)	INDICATE UNDIVIDED INTERESTS	
			UNLEASED	NON-POOLED
1	UL Lease 111446	640.72	<input type="checkbox"/>	<input type="checkbox"/>
2	UL Lease 111445	320.1	<input type="checkbox"/>	<input type="checkbox"/>
3	UL Lease 111573	320.12	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

### CERTIFICATION:

I declare under penalties prescribed pursuant to the Sec. 91.143, Texas Natural Resources Code, that I am authorized to make the foregoing statements and that the information provided by me or under my direction on this Certificate of Pooling Authority is true, correct, and complete to the best of my knowledge.

	<b>Crystal M Hink</b>
Signature	Print Name
Land Admin Manager	<b>6/5/18</b>
<b>crystalh@felix-energy.com</b>	<b>(720) 974-2076</b>
Title	Phone
E-mail (if available)	

### INSTRUCTIONS — Reference: Statewide Rules 31, 38 and 40

- When two or more tracts are pooled to form a unit to obtain a drilling permit, file completion paperwork, or reform a pooled unit pursuant to Rule 38(d)(3) the operator must file an original Certificate of Pooling Authority and certified plat.
- The certified plat shall designate each tract with an outline and a tract identifier. The tract identifier on the plat shall correspond to the tract identifier and associated information listed on the Certificate.
- If within an individual tract, a non-pooled and/or unleased interest exists, indicate by checking the appropriate box.
- If the Purpose of Filing is to obtain a drilling permit, in box #1 list all applicable fields separately or enter "All Fields" if the Certificate pertains to all fields requested on Form W-1.
- If the Purpose of Filing is to file completion paperwork, enter the applicable field name in box #1 for the completion.
- Identify the drill site tract with an \* to the left of the tract identifier.
- The total number of acres in the pooled unit in #11 should equal the total of all acres in the individual tracts listed.

Clear Form



## RAILROAD COMMISSION OF TEXAS

**1701 N. Congress  
P.O. Box 12967  
Austin, Texas 78701-2967**

Form P-16

Page 1

Rev. 01/2016

## Acreage Designation

## SECTION 1. OPERATOR INFORMATION

<b>Operator Name:</b> Felix Energy Holdings II, LLC	<b>Operator P-5 No.:</b> 265322
<b>Operator Address:</b> 1530 16th Street, Suite 500, Denver, CO 80202	

## SECTION II. WELL INFORMATION

<b>District No.:</b> 08	<b>County:</b> Ward	<b>Purpose of Filing:</b> <input type="checkbox"/> Drilling Permit Application (Form W-1) <input checked="" type="checkbox"/> Completion Report (Form G-1/W-2)
<b>Well No.:</b> 1H	<b>API No.:</b> 42-475-37215	
<b>Total Lease Acres:</b> 1280.94	<b>Drilling Permit No.:</b> 824506	
<b>Lease Name:</b> UL Guanella 0504-17	<b>Lease No.:</b>	
<b>Field Name:</b> Phantom (Wolfcamp)	<b>Field No.:</b> 71052900	

Filer is the owner or lessee, or has been authorized by the owner or lessee, of all or an undivided portion of the mineral estate under each tract for which filer is listed as operator below. For all leases operated by other entities, the number of assigned acres shown are reflected on current Commission records or the filer has been authorized by the current operator to change the assigned acreage of that operator as shown below.

**SECTION III. LISTING OF ALL WELLS IN THE APPLIED-FOR FIELD ON THE SAME ACREAGE AS THE LEASE, POOLED UNIT, OR UNITIZED TRACT DESIGNATED IN SECTION II ABOVE BY FILER**

[illegible]


Total Well Count >	1	1280.94	< A. Total Assigned Horiz. Acreage	1280.94	< C. Total Assigned Acreage
		0	< Total Remaining Horiz. Acreage	0	< Total Remaining Acreage
		0	< B. Total Assigned Vert./Dir. Acreage		
		0	< Total Remaining Vert./Dir. Acreage		

## SECTION IV. REMARKS / PURPOSE OF FILING (see instructions)

Changing name from UL Guanella 05-17 1H to UL Guanella 0504-17 1H to comply with RRC naming rules.  
Updated acreage to include 640.22 from Section 4 which has been added to the drill unit. Two additional wells were permitted since this well was originally permitted; acreage has been divided accordingly.

**Attach Additional Pages As Needed.** ☒ No additional pages ☐ Additional Pages: \_\_\_\_\_ (No. of additional pages)

**CERTIFICATION:** I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that this report was prepared by me or under my supervision or direction, that I am authorized to make this report, and that the information contained in this report is true, correct, and complete to the best of my knowledge.

direction, that I am authorized to make this report, and that the information contained in this report is true, correct, and complete to the best of my knowledge.							
		Crystal M Hink - Land Admin Manager		crystalh@felix-energy.com			
Signature		Name and title (type or print)		Email (include email address <i>only</i> if you affirmatively consent to its public release)			
1530 16th Street, Suite 500		Denver CO 80202		720 974-2076		8/1/18	
Address		City, State, Zip Code		Tel: Area Code Number		Date: mo. day yr.	

## GROUNDWATER PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

**Date Issued:** 28 March 2017**GAU Number:** 168979**Attention:** FELIX ENERGY HOLDINGS II,  
FELIX ENERGY  
DENVER, CO 80202**Operator No.:** 265322**API Number:**  
**County:** WARD  
**Lease Name:** UL Guanella 05-17  
**Lease Number:**  
**Well Number:** 1H  
**Total Vertical Depth:** 14000  
**Latitude:** 31.582601  
**Longitude:** -103.164391  
**Datum:** NAD27**Purpose:** New Drill**Location:** Survey-UL; Abstract-U44; Block-17; Section-5

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

The base of usable-quality water-bearing strata is estimated to occur at a depth of 1200 feet at the site of the referenced well.

This recommendation is applicable to all wells within a radius of 800 feet of this location.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

This determination is based on information provided when the application was submitted on 03/15/2017. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

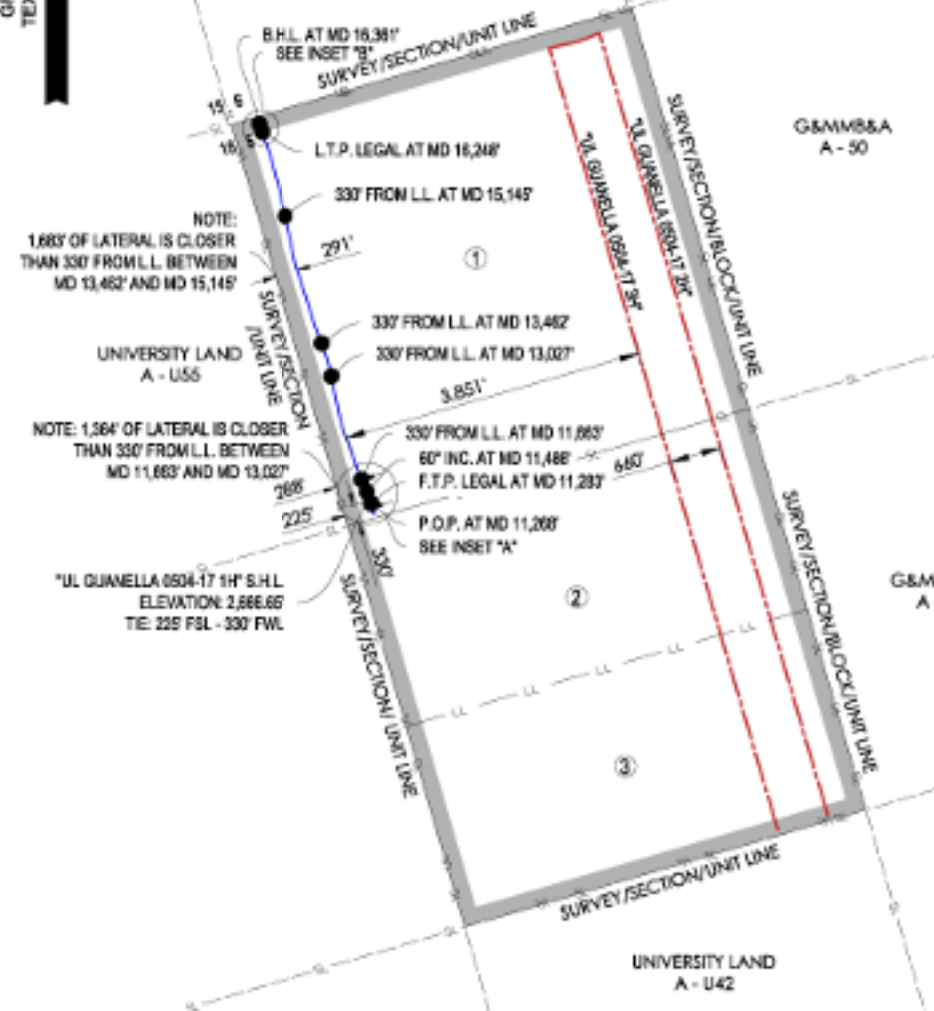
Form GW-2 P.O. Box 12967 Austin, Texas 78771-2967 512-463-2741 Internet address: www.rrc.texas.gov  
Rev. 02/2014



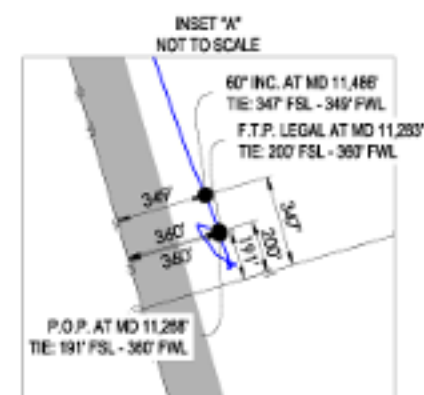
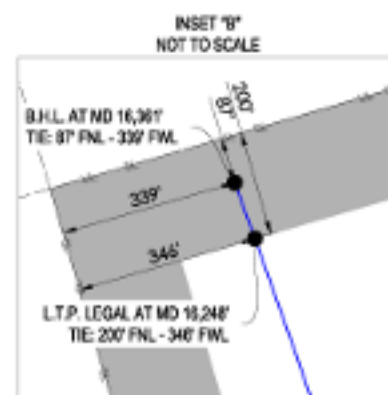


**FELIX ENERGY HOLDINGS II, LLC**  
**WARD COUNTY, TEXAS**  
**S.H.L. 225' FSL - 330' FWL, SECTION 5, BLOCK 17**

LEGEND	
—	UNIT LINE
—	SECTION / SURVEY LINE
—	AS-DILLED WELL PATH
—	EXISTING WELL PATH
—	200' UNIT OFFSET
●	S.H.L. SURFACE HOLE LOCATION
●	P.O.P. POINT OF PENETRATION
●	F.T.P. FIRST TAKE POINT
●	T.P. TURNING POINT
●	L.T.P. LAST TAKE POINT
●	B.H.L. BOTTOM HOLE LOCATION



①	②	③
SECTION 5 - BLOCK 17 640.72 ACRES UNIVERSITY LAND A - U44 TRACT 1 - UL LEASE 111445	N/2 - SECTION 4 - BLOCK 17 320.10 ACRES UNIVERSITY LAND A - U43 TRACT 2 - UL LEASE 111445	S/2 - SECTION 4 - BLOCK 17 320.12 ACRES UNIVERSITY LAND A - U43 TRACT 3 - UL LEASE 111573



OPERATOR: FELIX ENERGY HOLDINGS II, LLC

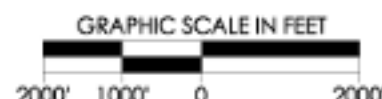
WELL NAME: UL GUANELLA 0504-17 WELL NO: 1H

TOPOGRAPHIC & VEGETATION: FLAT LOCATION WITH LOW LYING BRUSH

GOOD DRILL SITE: YES REFERENCE STAKES OR ALTERNATE LOCATION STAKES SET: NONE

BEST ACCESSIBILITY TO LOCATION: FROM SOUTH

**DISTANCE & DIRECTION**  
FROM HWY JCT OR TOWN: ±3.76 MILES NORTHWEST OF PYOTE, TX.  
FROM THE INTERSECTION OF PYOTE ST. AND HIGHWAY 2355 IN PYOTE, TEXAS, TAKE HIGHWAY 2355 AND TRAVEL WEST FOR ±3.11 MILES, TURN RIGHT ON AN EXISTING LEASE ROAD AND TRAVEL FOR ±1.46 MILES, TURN RIGHT ON AN EXISTING LEASE ROAD AND TRAVEL ±1.31 MILES TO A PROPOSED LEASE ROAD STRAIGHT AHEAD IN CURVE AND TRAVEL ±426 FEET TO THE WELL PAD.



**SURFACE HOLE LOCATION:**

225' FSL & 330' FWL (SEC. 5)  
GROUND ELEVATION: 2,666.65'  
**NAD 27 TEXAS CENTRAL ZONE**  
NORTHING: 708028.35, EASTING: 1118509.48  
LATITUDE: N 31.58240250°, LONGITUDE: W 103.16438961°  
**NAD 83 TEXAS CENTRAL ZONE**  
NORTHING: 10650403.99, EASTING: 1414975.31  
LATITUDE: N 31.58273459°, LONGITUDE: W 103.16483069°

**POINT OF PENETRATION:**

191' FSL & 360' FWL (SEC. 5)  
**NAD 27 TEXAS CENTRAL ZONE**  
NORTHING: 708004.05, EASTING: 1118547.82  
LATITUDE: N 31.58253839°, LONGITUDE: W 103.16426454°

**FIRST TAKE POINT:**

200' FSL & 340' FWL (SEC. 5)  
**NAD 27 TEXAS CENTRAL ZONE**  
NORTHING: 708012.78, EASTING: 1118545.33  
LATITUDE: N 31.58256222°, LONGITUDE: W 103.16427325°

**LAST TAKE POINT:**

200' FNL & 346' FWL (SEC. 5)  
**NAD 27 TEXAS CENTRAL ZONE**  
NORTHING: 712699.71, EASTING: 1117162.32  
LATITUDE: N 31.59534653°, LONGITUDE: W 103.16909676°

**BOTTOM HOLE LOCATION:**

87' FNL & 339' FWL (SEC. 5)  
**NAD 27 TEXAS CENTRAL ZONE**  
NORTHING: 712806.01, EASTING: 1117123.99  
LATITUDE: N 31.59563598°, LONGITUDE: W 103.16922852°

**UNIT CORNERS**

LOCATION	NAD27
	STATE PLANE TEXAS CENTRAL (2011)
	GEOGRAPHIC (2011)
NE CORNER BLK 17 - SEC 5	N = 714275.75 E = 1121841.87 LAT: 31.60005001° LONG: -103.15428102°
SE CORNER BLK 17 - SEC 4	N = 704129.15 E = 1124803.22 LAT: 31.57232400° LONG: -103.14306051°
SW CORNER BLK 17 - SEC 4	N = 702849.94 E = 1118738.10 LAT: 31.56790454° LONG: -103.16001619°
NW CORNER BLK 17 - SEC 5	N = 712794.85 E = 1116774.26 LAT: 31.56658102° LONG: -103.17035047°



**CONTACT INFORMATION:**  
Shannon D. Oment  
Crafton Tull (18183715)  
1000 Ludgown Dr.  
Conway, AR 72034

**GENERAL NOTES:**  
1. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON REASONABLE VISUAL OBSERVATION LOCATIONS OF UNDERGROUND UTILITIES STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREIN. ADDITIONAL BURIED UTILITIES STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES STRUCTURES. BEFORE EXCAVATIONS ARE BEGUN, THE OFFICES OF THE VARIOUS UTILITIES SERVING THIS AREA SHOULD BE CONTACTED FOR THEIR UTILITY LOCATION.  
2. BASIS OF BEARINGS: TEXAS STATE PLANE GRID, CENTRAL ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION.  
3. COMBINED SCALE FACTOR AT S.H.L. - 0.99988594  
4. VERTICAL DATUM IS NAVD 83  
5. AREAS, DISTANCES, AND COORDINATES ARE "GROSS" BASED ON U.S. SURVEY FEET.  
6. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY.

1000 Ludgown Dr  
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**Crafton Tull**  
surveying  
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REVISION		"UL GUANELLA 0504-17 1H"	
1	PRELIM PLAT 7-6-17	SECTION 5, BLOCK 17 - 640.72 ACRES N/2 - SECTION 4, BLOCK 17 - 320.10 ACRES S/2 - SECTION 4, BLOCK 17 - 320.12 ACRES WARD COUNTY, TEXAS <b>FINAL AS-DILLED PLAT</b>	
2	FINAL PLAT 1-29-18		
SCALE: 1" = 2000'		CHECKED BY:	A.LILEY
PLOT DATE: 06-06-2018		DRAWN BY:	L.DOW
		APPROVED BY:	SHEET NO.: 1 OF 1



